PATENT APPLICATION

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re the Application of:

SBERVEGLIERI et al Group Art Unit: Not yet assigned

Application No.: New Application Examiner: Not yet assigned

Filed: April 23, 2004 Attorney Dkt. No.: 58620.00010

For: A THIN SEMICONDUCTOR FILM GAS SENSOR DEVICE

INFORMATION DISCLOSURE STATEMENT

Commissioner for Patents P.O. Box 1450 Alexandria, VA 22313-1450

April 23, 2004

Sir:

Pursuant to 37 CFR §1.56, the attention of the Patent and Trademark Office is hereby directed to the information item(s) listed on the attached PTO-1449. Unless otherwise indicated herein, one copy of each item(s) is attached. It is respectfully requested that the information be expressly considered during the prosecution of this application, and that the item(s) be made of record therein and appear among the "References Cited" on any patent to issue therefrom.

1. This Information Disclosure Statement is being filed (a) within months of the U.S. filing date or the date of filing a CPA, OR (b) beformailing date of a first Office Action on the merits in the present applit accompanies a Request for Continued Examination. No certification required.					
2. This Information Disclosure Statement is being filed more than three months after the U.S. filing date AND after the mailing date of the first Office Action on the merits, but before the mailing date of a Final Rejection or Notice of Allowance.					
	a. I hereby certify that each item of information contained in this Information Disclosure Statement was cited in a communication from a				

foreign patent office in a counterpart foreign application not more than three months prior to the filing of this Information Disclosure Statement. 37 CFR §1.97(e)(1). I hereby certify that no item of information in this Information Disclosure Statement was cited in a communication from a foreign patent office in a counterpart foreign application or, to my knowledge after making reasonable inquiry, was known to any individual designated in 37 CFR §1.56(c) more than three months prior to the filing of this Information Disclosure Statement. 37 CFR §1.97(e)(2). A check in the amount of \$180.00 in payment of the fee under 37 CFR §1.17(p). Please charge any fee deficiency or credit any overpayment to Counsel's Deposit Account No. 50-2222 as needed to ensure consideration of the disclosed information. This Information Disclosure Statement is being filed more than three 3. months after the U.S. filing date and after the mailing date of a Final Rejection or Notice of Allowance, but before payment of the Issue Fee. Applicant(s) hereby petition(s) that the Information Disclosure Statement be considered. Attached is our check in the amount of \$180.00 in payment of the petition fee under 37 CFR §1.17(p). Please charge any fee deficiency or credit any overpayment to Counsel's Deposit Account No. 50-2222 as needed to ensure consideration of the disclosed information. I hereby certify that each item of information contained in this Information Disclosure Statement was first cited in any communication from a foreign patent office in a counterpart foreign application not more than three months prior to the filing of this Information Disclosure Statement. 37 CFR §1.97(e)(1). b. I hereby certify that no item of information in this Information Disclosure Statement was cited in any communication from a foreign patent office in a counterpart foreign application and, to my knowledge after making reasonable inquiry, was known to any individual designated in 37 CFR §1.56(c) more than three months prior to the filing of this Information Disclosure Statement. 37 CFR §1.97(e)(2). \boxtimes 4. The relevance of the reference(s) is discussed in the present specification.

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In the event that there are any fees due with respect to the filing of this paper, please charge Counsel's Deposit Account No. 50-2222.

Respectfully submitted,

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Enclosures: PTO-1449 Form; 16 References

FORM PTO-1449

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U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE

LIST OF REFERENCES CITED BY APPLICANT

(Use several sheets if necessary)

SERIAL NO. ATTY. DOCKET NO. 58620.00010

New Application

APPLICANT

SBERVEGLIERI et al

FILING DATE

GROUP

April 23, 2004

Not yet assigned

U.S. PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NO.	DATE	NAME	CLASS	SUB- CLASS	FILING DATE
	AA						

OTHER REFERENCES (Including Author, Title, Date, Pertinent Pages, Etc.) ALSberveglieri et al, "Highly Sensitive and Selective NO_x and NO₂ Sensor Based on Cd-doped SnO₂ Thin Films," Sensors and Actuators B. 4, 1991, pages 457-461. Sberveglieri et al, "A new technique for the preparation of highly sensitive hydrogen sensors based on SnO₂(Bi₂O₃) thin films," Sensors and Actuators B, 5, 1991, pages 253-255. AM Sherveglieri et al, "A new technique for growing porous SnO2(Bi2O3) thin films as hydrogen gas sensors," Journal of AN Materials Science Letters 10, 1991, pages 602-604. Sberveglieri et al, "A novel PVD technique for the preparation of SnO₂ thin films as C₂H₅OH Sensors," Sensors and Actuators B, 7, 1992, pages 721-726. Sberveglieri et al, "R.G.T.O: A New Technique for Preparing SnO₂ Sputtered Thin Film as Gas Sensors." IEEE, vol. 5, 1991, pages 165-168. Sberveglieri, "Classical and novel techniques for the preparation of SnO₂ thin-film gas sensors", Sensors and Actuators B, 6, 1992, pages 239-247. Sberveglieri et al, "Detection of Sub-ppm H2S concentrations by means of SnO2(Pt) thin films, grown by the RGTO technique", Sensors and Actuators B, 15-16, 1993, pages 86-89. Sberveglieri,"Novel Trends in the development of semiconducting thin films for gas sensing", Books of Abstracts, International Workshop on New Developments in Semiconducting Gas Sensors, September 13-14, 1993. Sberveglieri et al, "WO3 sputtered thin films for NOx monitoring", Abstract Eurosensors VIII, September 25-28, 1994. Sberveglieri, "Recent developments in semiconducting thin-film gas sensors", Sensors and Actuators B, 23, 1995, pages 103-Sberveglieri et al, "A Novel Method for the Preparation of Nanosized TiO₂ Thin Films" Advanced Materials, 1996, vol. 8, no. 4, pages 334-337. Ferroni et al, "Gas-Sensing Applications of W-Ti-O-based nanosized thin films prepared by r.f. reactive sputtering", Sensors and Actuators B, 44, 1997, pages 499-502. Faglia et al, "Electrical and structural properties of RGTO-In₂O₃ sensors for ozone", Sensors and Actuators B 57, 1997, pages 188-191 Comini et al, "Carbon monoxide response of molybdenum oxide thin films deposited by different techniques", Sensors and Actuators B 68, 2000, pages 168-174. Comini et al, "Ti-W-O sputtered thin film as n- or p-type gas sensors", Sensors and Actuators B 70, 2000, pages 108-114. Comini et al, "Production and characterization of titanium and iron oxide nano-sized thin films", J. Mater. Res., vol. 16, no. 6, June 2001, pages 1559-1564. **EXAMINER** DATE CONSIDERED

*EXAMINER:

Initial if reference considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.